Aug. 12, 1924. 1,504,440

A. E. GALLIN ET AL

ADVERTISING MACHINE

Filed Oct. 20, 1923

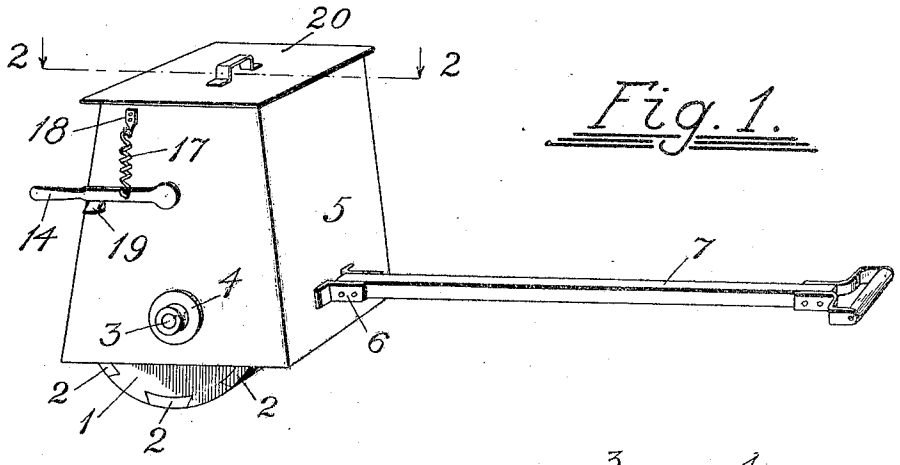
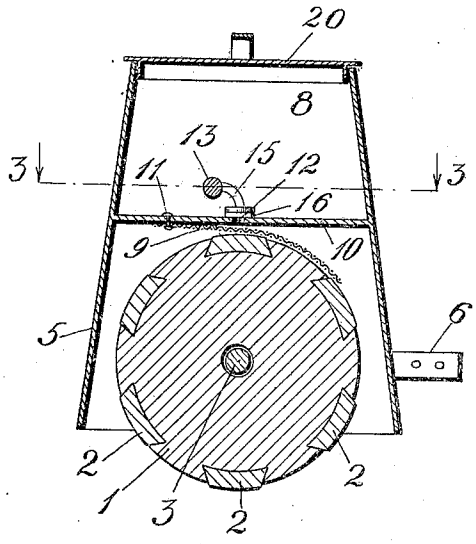


Fig. 1.



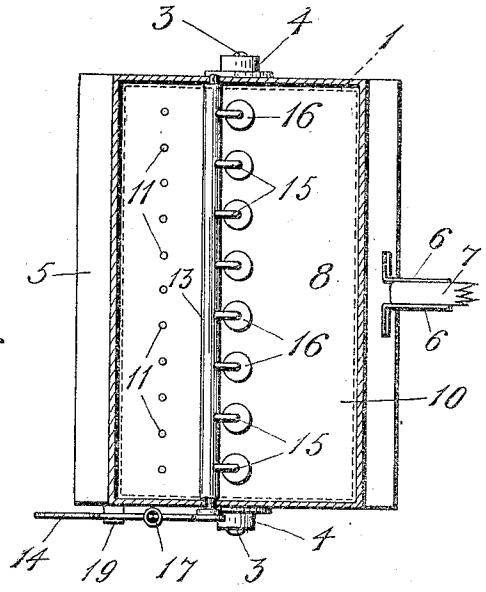


Fig. 2.

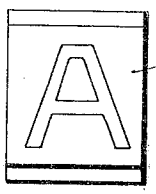


Fig. 3.

Fig. 4.

WITNESS

Stroner

INVENTOR

A. E. Gallin & H. J. Radis.

BY

Goldberg

ATTORNEYS

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UNITED STATES PATENT OFFICE.

ALBERT EMIL GALLIN AND ANGELO P. KACHIS, OF PORTLAND, OREGON.

ADVERTISING MACHINE.

Application filed October 20, 1923. Serial No. 669,730.

To all whom it may concern:

Be it known that we, ALBERT E. GALLIN, a citizen of the United States, and ANGELO P. KACHIS, a subject of the Republic of Greece, both residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Advertising Machine, of which the following is a specification.

Our invention relates to improvements in advertising machines in which a roller with exchangeable printing type is combined with a supply tank for the printing fluid, and with means to pull the roller over sidewalks or other smooth pavements.

The objects of our invention are to furnish means whereby long stretches of ground can be quickly covered with advertising matter.

Other objects and advantages are to be found in the construction and arrangement of parts as will be described in the specification and particularly pointed out in the appended claims.

We attain these objects with the mechanism illustrated in the accompanying drawing, in which—

Fig. 1 is a perspective view of the entire apparatus.

Fig. 2 is a section through Fig. 1 along the line 2—2;

Fig. 3 is a section through Fig. 2 along the line 3—3;

Fig. 4 is a plan view of an individual type block.

Similar numerals refer to similar parts throughout the several views.

A roller 1 of wood or other suitable material has the surface traversed by a plurality of dovetailed grooves for the reception of the rubber blocks 2. These blocks may have either raised or depressed characters in their surfaces; firm names, slogans or other advertising matter can be formed with them, and they can be interchanged if another advertisement is desired. The roller is axially mounted on a shaft 3, and the latter is mounted in bearings 4 which may be affixed in any suitable way to a housing 5. The latter serves partly as a mud guard, partly as a means to attach the bearings 4, partly to attach the brackets 6 which latter again are used to fasten a tongue 7 wherewith the roller may be pulled over the ground, and partly to form the side walls and support of an overhead tank 8 from which the roller is supplied with printing fluid. A cloth 9 has one end attached to the bottom 10 of the tank by means of the rivets 11, the other end of the cloth rests on the roller. The fluid drops onto the cloth through a row of holes 12 in the bottom of the tank. To close the holes, there is a shaft 13 mounted within the tank parallel to the holes, and this shaft can be slightly rotated by a lever 14. This lever is mounted at the outside of the tank and should possess a limited amount of flexibility in lateral direction for purposes which will be explained later. Inside the tank there are arms 15 attached to the shaft, and the terminals of the arms are equipped with suitable provisions to hold a rubber disk 16 whereby the holes can be closed tight when the arms are pressed down by an upward pull on the lever 14. This upward pull is automatically effected by a tension spring 17 which reaches from the lever to a hook 18 on the side wall of the supply tank. To open the holes, the lever must be pressed down and also slightly flexed laterally until it snaps over a nose 19 which latter also is fastened to the side of the supply tank. The tank may be closed by any suitable cover 20.

In operation the tank is filled with water, calcimine or paint and after the holes are opened, the tongue is attached to a moving vehicle or else pulled by hand over sidewalks, streets and highways, leaving a trail of advertising matter behind as fast as the roller can be moved over the ground. Where permanent marks might prove objectionable and consequently paint or calcimine cannot be employed, the printing fluid in the tank should be pure water. Of course, such advertising will gradually evaporate, but the speed and cheapness with which such marks can be applied permits even repeated applications without excessive cost. Since everybody watches his step at one time or another, an advertisement applied with this machine cannot fail to attract the attention of the passengers.

Having thus described our invention, it will be seen that our objects have been accomplished, and, though we have shown the preferred form of construction, we reserve to ourselves the right to make minor changes in details providing we do not violate the spirit and principle of our invention.

We claim:

1. In an advertising machine, the combi-

nation of a roller having a plurality of longitudinal dovetailed grooves in its surface, dovetailed rubber blocks mounted in said grooves, said blocks being marked on their outer surfaces with characters, figures or signs, an axis through the roller, a tongue attached to the axis, a supply tank mounted above the roller, and a cloth attached to the bottom of the tank and being in sliding contact with the roller.

2. In an advertising machine, the combination of a printing roller having removable type attached to its circumference, a mud-guard surrounding said printing roller, said roller being mounted in the structure comprising said mud-guard, brackets attached to the mud-guard, a tongue mounted in the brackets, a supply tank mounted above the roller, and a cloth attached to the bottom of the tank and being in sliding contact with said type.

3. In an advertising machine, the combination of a printing roller mounted in a housing and capable of being drawn over the ground, a supply tank forming an integral part of the housing, a row of perforations in the bottom of the tank parallel to the roller, a cloth having one end attached to the bottom of the tank, the other end of said cloth resting on the roller, the intermediate portion of the cloth proceeding past the perforations in the tank, and closures for said perforations, said closures being located in the tank and operated from the outside of the tank.

4. In an advertising machine, the combination of a printing roller adapted to be drawn over the ground, a supply tank mounted above the printing roller and having a row of perforations in the bottom, a shaft traversing the tank parallel to the perforations, arms attached to the shaft, rubber disks at the terminals of the arms, said disks being adapted to close said perforations, a lever at the outside of the tank cooperatively connected with the shaft, and means operating on the lever to keep the perforations temporarily opened or closed.

5. In an advertising machine, the combination of a printing roller adapted to be drawn over the ground, a supply tank mounted above the printing roller and having perforations in the bottom, a cloth in contact with the roller and receiving the contents of the supply tank through the perforations, closures for the perforations within the tank, a lever at the outside of the tank actuating the closures, said lever proceeding horizontally, a tension spring attached to the tank above the lever and connecting with said lever, and a nose attached to the tank below said lever.

6. In an advertising machine, the combination of a printing roller, a supply tank mounted above the printing roller, said supply tank having perforations in its bottom, a cloth in contact with the roller and receiving the contents of the supply tank through the perforations, means operable from the outside of the tank to close said perforations from within, and a cover for the supply tank.

ALBERT EMIL GALLIN.
ANGELO P. KACHIS.